NOVEMBER/DECEMBER 2025

FCA11/FCS11/FDA11/FAI11/CCA11/CCS11 — PROGRAMMING IN C

Time : Three hours Maximum : 75 marks

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SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. State the basic data types and their meanings.
2. Write the syntax of FOR Statement.
3. What are the three types of items in the Control String part of printf Statement?
4. How to write a character to the terminal?
5. Distinguish between Static and Dynamic Arrays.
6. Mention the features of Strings.
7. State the rules for initializing Structure.
8. How to open a File in 'C'?
9. Write the prime numbers between 1 to 20.
10. How to find the Greatest Common Divisor?

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Narrate the different types of 'C' Constants.

Or

(b) Write a simple 'C' program to handle Arithmetic Operations.

12. (a) How to use getchar( ) function in an Interactive environment? Explain.

Or

(b) Illustrate the use of break and continue Statements.

13. (a) Write a 'C' program to print Multiplication table using Two-dimensional array.

Or

(b) With suitable example explain any two String handling Functions.

14. (a) Write a program to illustrate the comparison of Structure Variables.

Or

(b) How to declare, initialize and access a Pointer a Variable? Explain.

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15. (a) Write a program in 'C' to find the Square of a number.

Or

(b) Write a 'C' program to display the Fibonacci Series.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Exemplify different typos of tokens available in 'C'.

17. Illustrate any two decision making and branching Statements.

18. With suitable example discuss on Functions with arguments with return values.

19. Narrate the various Input/output operations on File.

20. Write a 'C' program to compute the Prime Factors of an Integer.

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